Bell Emergis

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OTTAWA, 10 June, 1998

Office of the Secretary
Federal Communications Commission
Room 222
1919 M Street, N.W.
Washington, D.C. 20554
The United States of America

Attn: Ms. Magalie R. Salas

Subject: In the Matter of *The Communications Assistance for Law Enforcement Act*
CC Docket No. 97-213
Ex Parte Presentation to the Commission, June 10, 1998.

Please find attached for the public record, two copies of a summary of the oral ex parte presentation delivered on this date to Mr. David Wye, Telecommunications Policy Analyst, Wireless Telecommunications Bureau, et al. This summary provides the substance of the ex parte presentation, including a list of all attendees.

Thank you very much for your attention to this matter.

Sincerely,

Gerald W. Fikis, P.Eng.
Group Leader - Technology & BL Mgmt

CALEA 6-10-98

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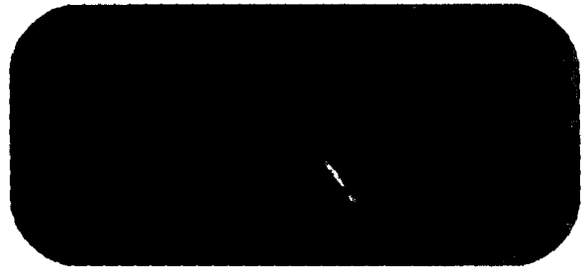
Project Jumbo

CALEA Compliant
Joint Product Development



Advantages

- Service Independent
  - Wireline and wireless networks
- Switch Platform Independent
  - No change to switch generic
- Feature Independent
  - Not affected by customer feature activation

Advantages

- Transparent
  - No impact on call processing
- Scalable
  - Provisioned and deployed to match intercept volume
- Secure
  - Dedicated administrative control point

CALEA Capabilities

- Intercepts ***all*** call attempts which reach the network
- Supports standard delivery options
  - Leased line, Dial-up, T1 (CCC)
  - X.25, TCP/IP, Async/Sync modem (CDC)
- CALEA plus:
  - Limitless call redirection
  - AIN features
  - 800 & 900 services
  - LNP

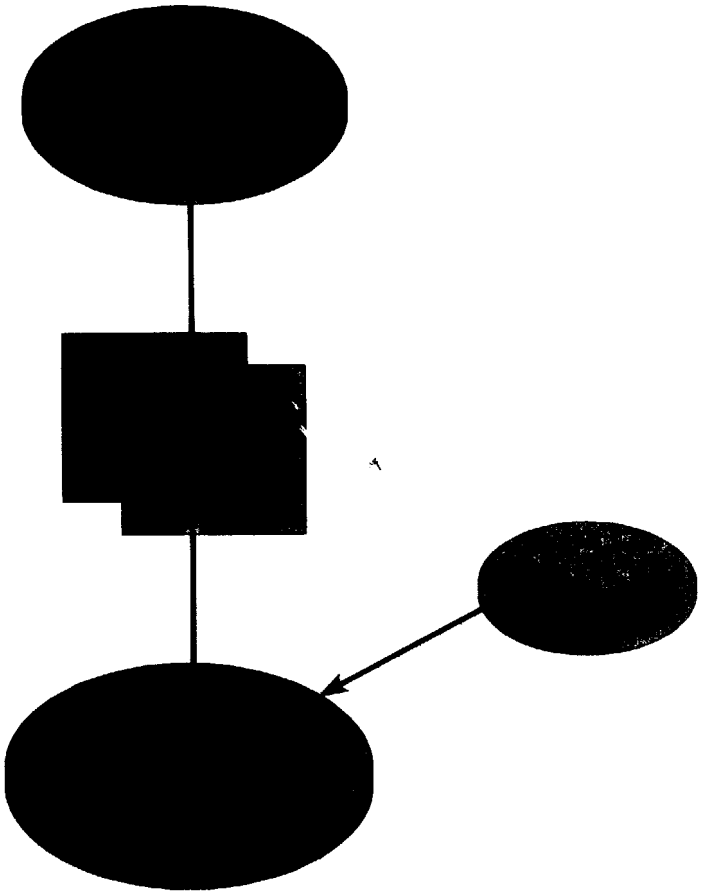
CALEA Compliance

- PN 3580A (TIA)
- SR-3529P (Bellcore/TILU)
- Electronic Surveillance Interface (TILU)
- T1M1.5 Security Management Services (ATIS/ANSI)

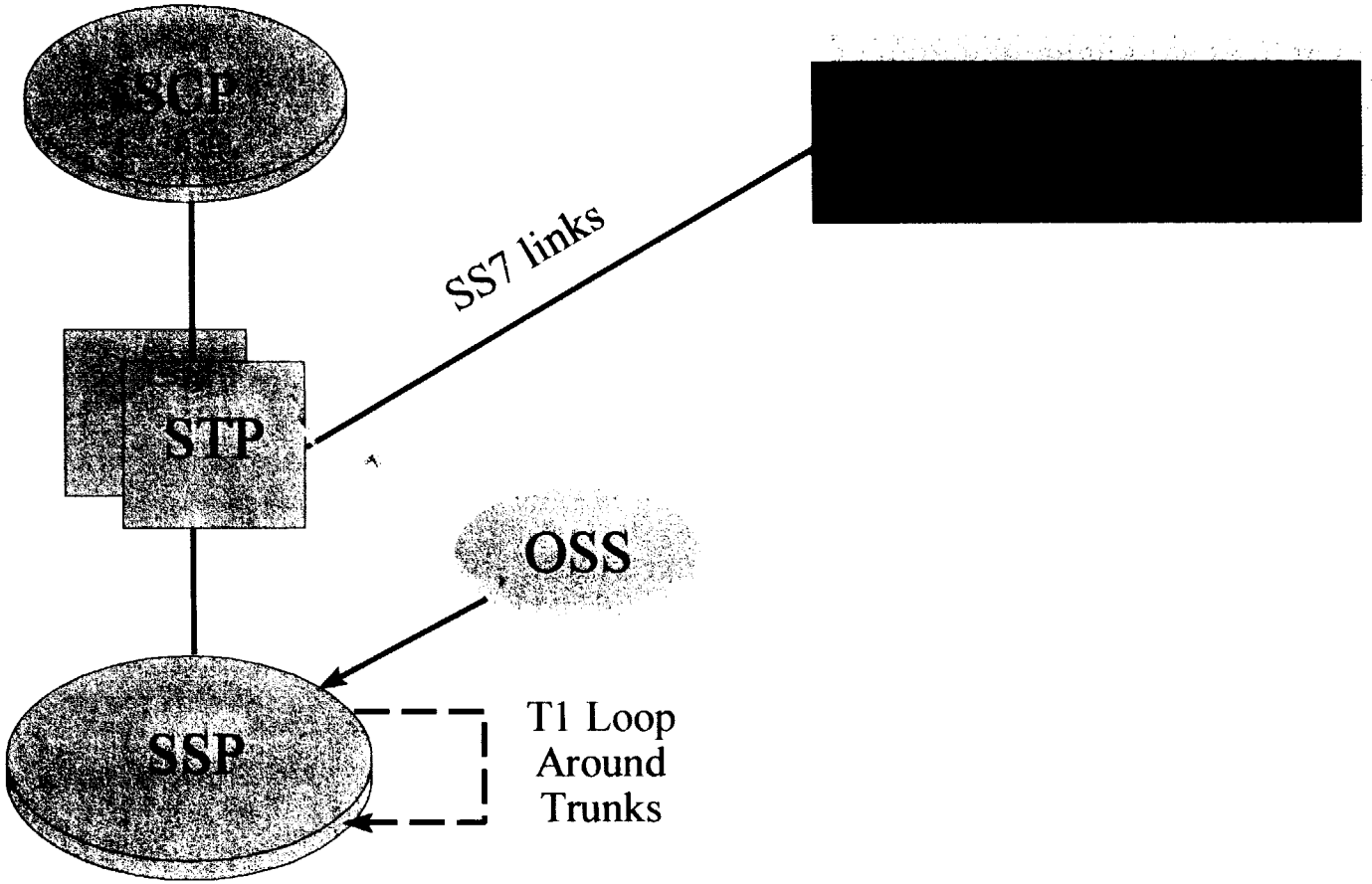
Network Standards

- Hardware
  - All NE's Bellcore Compliance tested
  - Network Equipment Building Standards (NEBS)
- Software
  - Standard UNIX environment for CDC Comm server
  - Windows for Admin GUI
  - Telecommunications Management Network (TMN) compliant
- Protocol stack support
  - SS7 Whitebook
  - IS-41
  - PCS 1900 & GSM

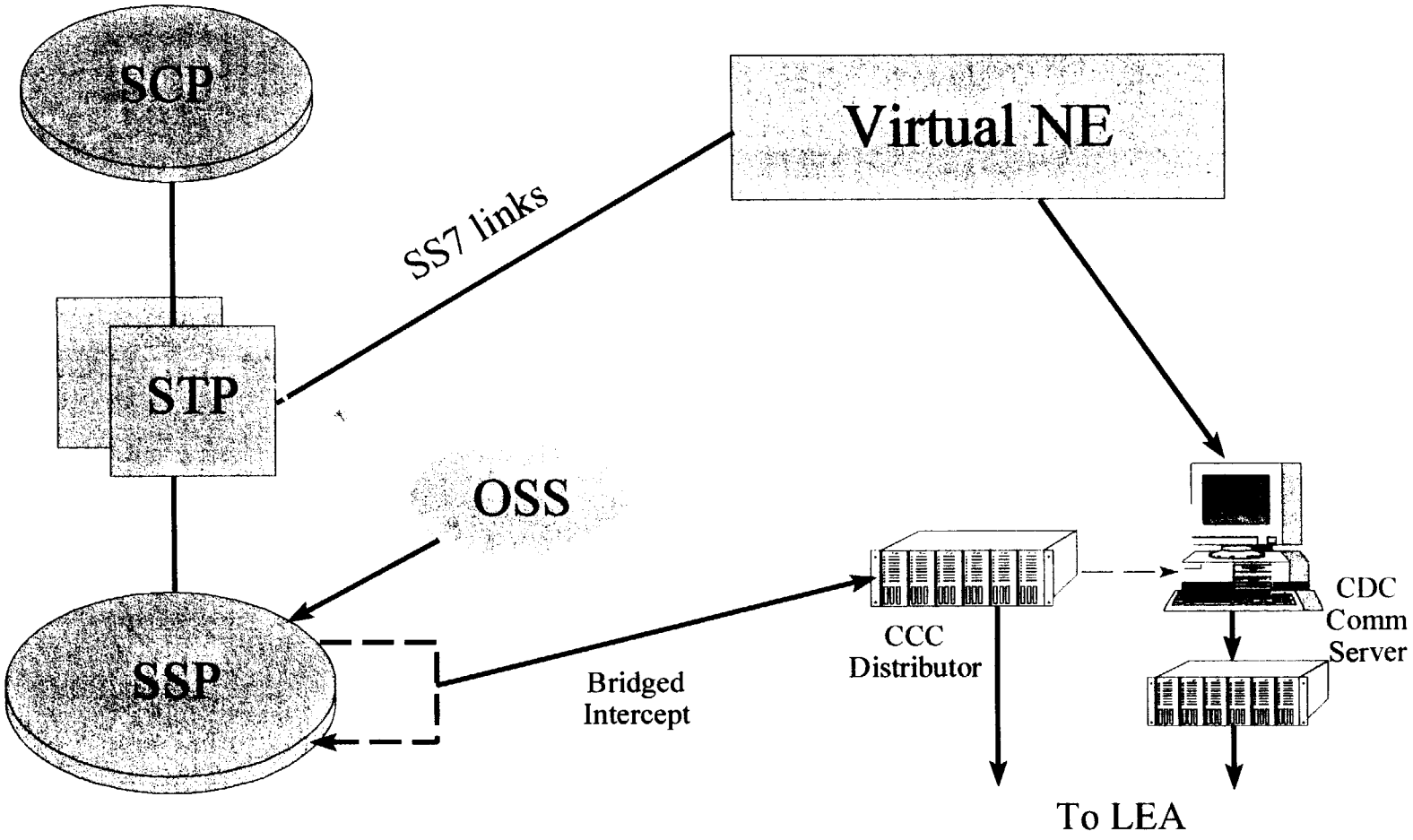
Implementation



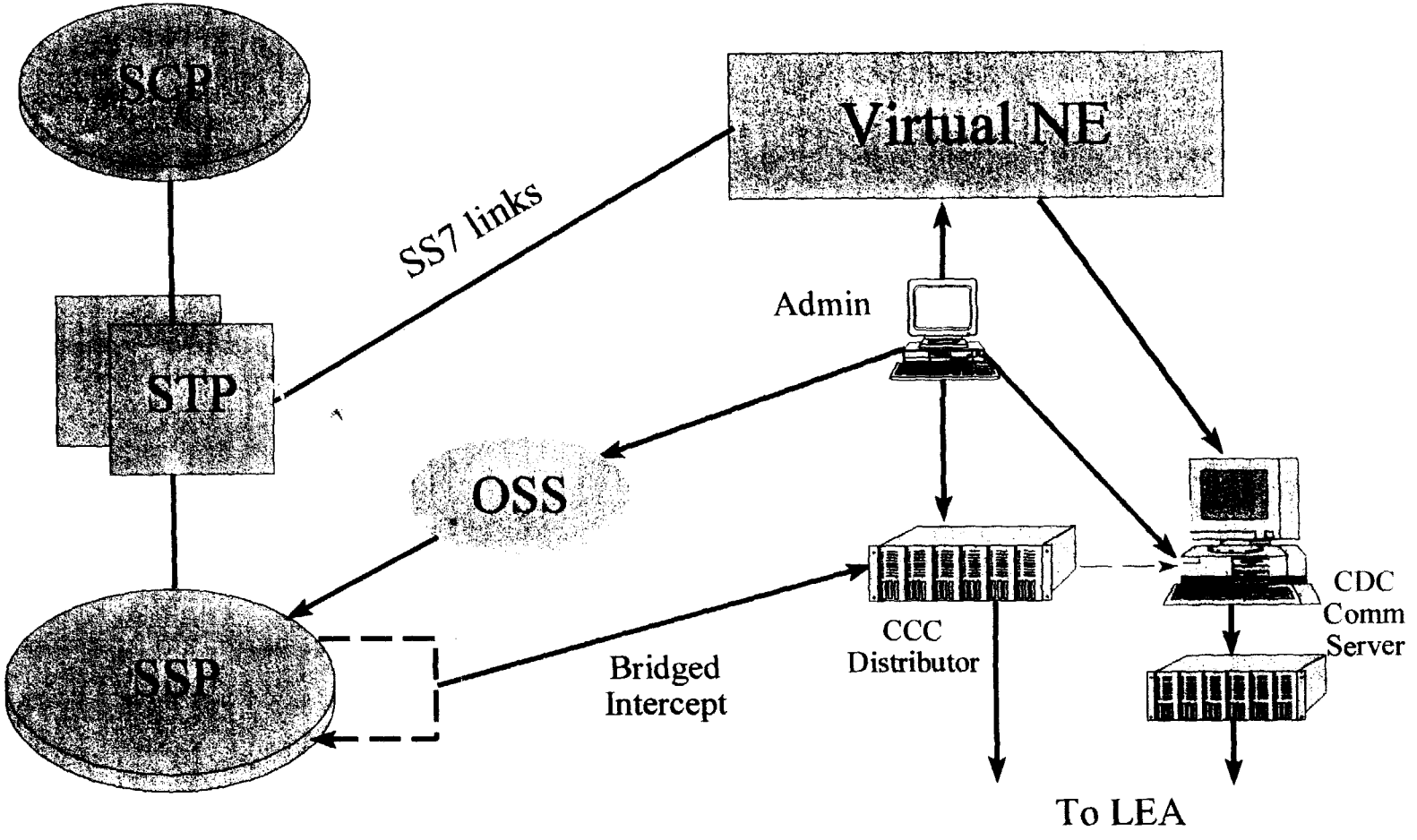
Implementation - Access FE



Implementation - Distribution FE



Implementation - Administration FE



Product Offering

- Price
  - One time fixed fee
- Compliance
  - CALEA indemnification
- Implementation
  - Turnkey, with assistance from Service Provider (SP)
- Capability
  - 100% of subscriber lines in SP's digital network

Product Offering

- Capacity
  - Initial fit-up equal to SP's published capacity notice
- Expansion
  - Virtually unlimited
- Support
  - Operational/maintenance training and documentation
  - Tier 2 support for 3 years
  - Conformance testing with new switch generics for 3 years
  - Software upgrades to support feature evolution for 3 years

Product Offering

- Not Included
  - Network trunking requirements
  - LAN/WAN admin communications requirements

ST Technologies

Distinctive [illegible]

Ex Parte Presentation

[illegible]

June 10, 1998

In the matter of [illegible] Docket No. 97-213

[illegible]

Agenda

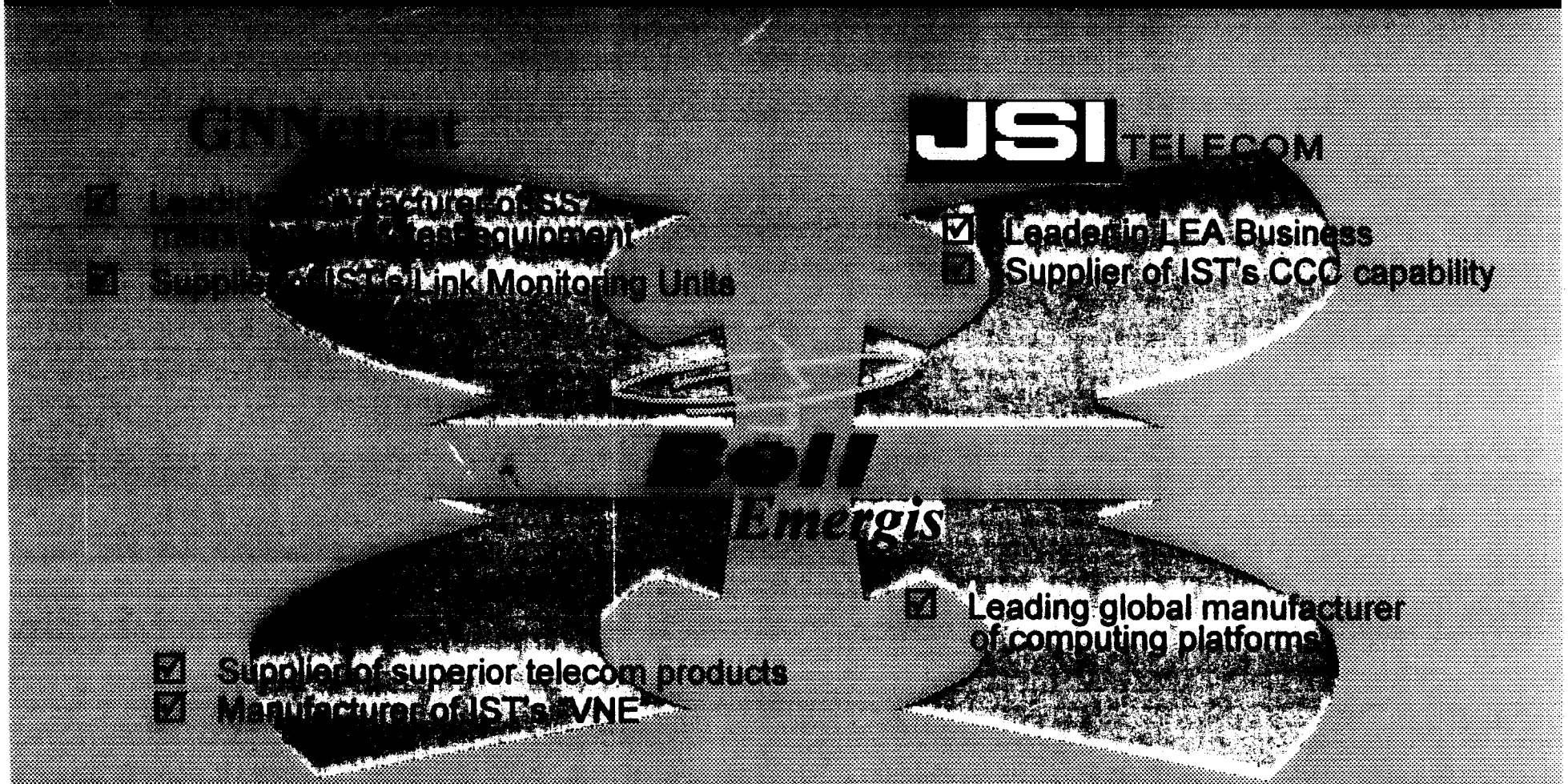
- ☑ High-level description of Bell Emergis - IST*echnologies*' CALEA solution
  - ➢ IST's view of product compliancy
- ☑ Analysis of the "state of the art"
  - ➢ Other solution providers
- ☑ Regulatory test of IST's CALEA solution
- ☑ Review of industry position
  - ➢ IST's CALEA product
  - ➢ The industry lobby
  - ➢ Reasonableness of an October implementation date
- ☑ Concluding Remarks

STechnologies

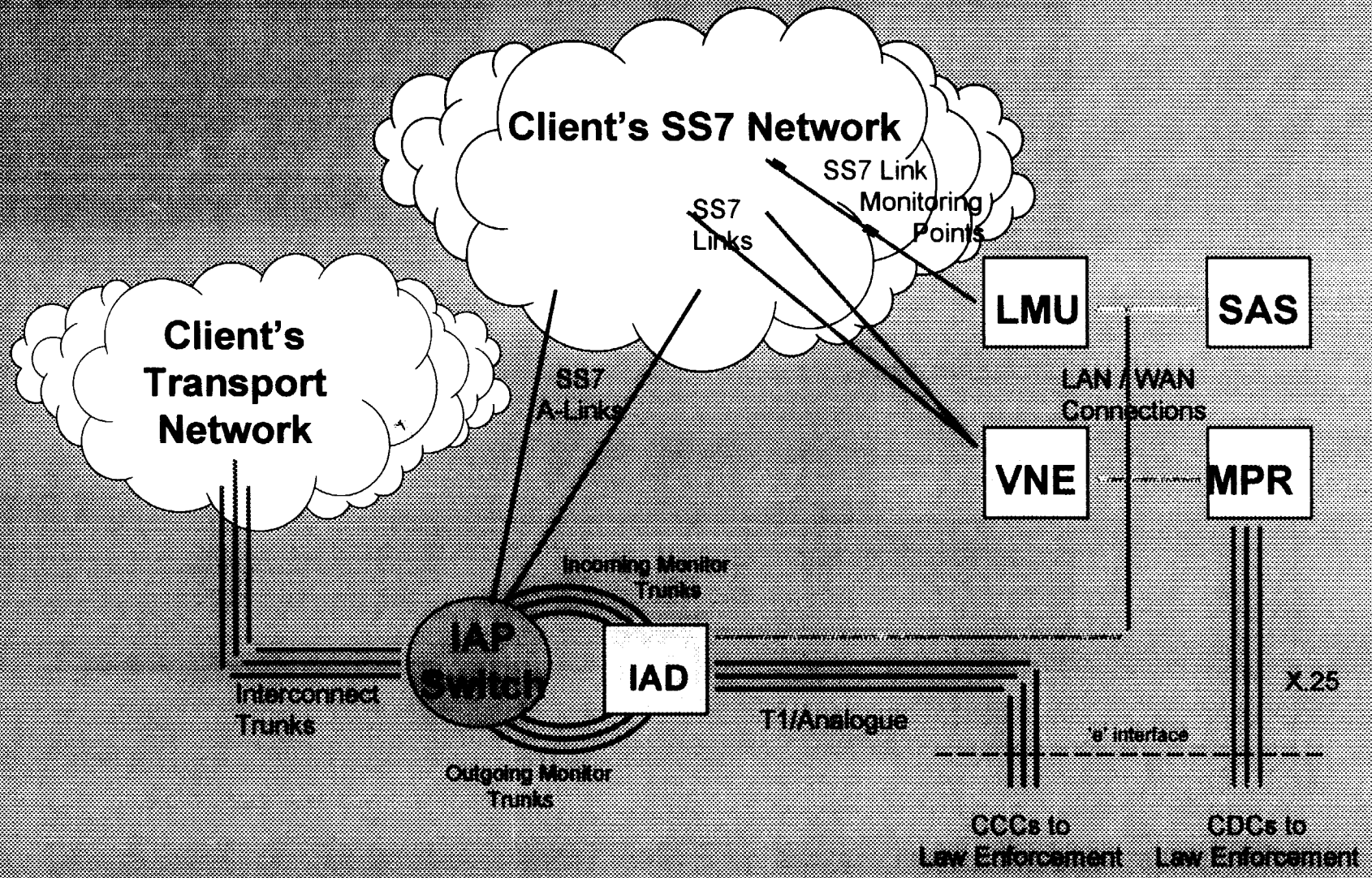
Distinctive

Bell Emergis - STechnologies' CALEA Solution

ST's CALEA Development Partners



AST's CALEA Implementation



IST's CALEA Components

☑ The "IAP" (Intercept Access Point) Switch

- The IAP switch is the switch which supports the target subscriber(s)
- For Wireline environments, this is normally a Class 5 or a 2-wire Office
- Must support ISUP loopback trunks and SS7 connectivity to the VNE for the Emergis IST solution.

☑ The "IAD" (Intercept Access Device)

- Provides a high impedance bridged intercept in order to deliver the call's content (to the law enforcement agency)
- Responsible for applying C-tone on idle CCCs
- Also responsible for monitoring active CCCs for inband information (eg: DTMF digits) and reporting info to VNE.

The IAD corresponds to the Circuit Intercept Access Point (CIAP) as defined and discussed in J-STD-025, Annex A.1.

CALEA Components (Cont'd)

☑ The "VNE" (The Virtual Network Element)

- Communicates with the IAP switch
  - Controlling and instructing the switch to route intercepted calls
  - Interfacing in SS7 ISUP messages with regards to ISUP loopback traffic
  - Delivering the necessary call-identification information.
- Directs the IAD to connect intercepted CCC channels for delivery to the Law Enforcement organization.
- Collects and manipulates information from the LMU
- Formulating messages and forwarding to appropriate law enforcement

☑ The "MPR" (The Multi-Protocol Router)

- The MPR collects messages from the VNE and provides that information to law enforcement over Call Data Channels.

CALEA Components (Cont'd)

☑ The "LMU" (The Link Monitoring Unit)

- Responsible for extracting relevant signalling information from selected links in the network
- LMUs are normally required on the IAP's signalling links as well as from various SCPs found within the network.

☑ The "SAS" (Surveillance Administration System)

- Performs Operations, Maintenance, Administration & Provisioning for the Surveillance System
- Enters warrants and provisions surveillances
- Administers and provisions CDC channels and CCC links
- Provides a front-end access mechanism into the other CALEA solution components
- Provides configuration establishment and management for the System

The ISTechnologies' solution provides a SAS which is compatible with Bellcore GR-2975-CORE

ST CALEA Implementation Detail